

## CLAIMS

1. A method for testing peritoneal function in order to evaluate a condition of a peritoneal dialysis patient, comprising the steps of:
  - 5 repeatedly performing fluid infusion and fluid drain of a predetermined amount of peritoneal dialysis fluid in alternation for peritoneal dialysis fluids having different osmotic pressures;
  - analyzing the drain fluid in order to assess an amount of the peritoneal dialysis fluid that is retained within the abdominal cavity of a patient, and a
  - 10 concentration of monitored solutes in the peritoneal dialysis fluid;
  - performing a peritoneal equilibrium test; and
  - performing a blood test in order to assess a change in condition in the blood due to performing fluid infusion and fluid drain;
  - wherein the step of performing a blood test is executed only once.
- 15 2. The method for testing peritoneal function according to claim 1, wherein the peritoneal equilibrium test is performed last of all the steps, and the blood test is performed immediately before or immediately after the peritoneal equilibrium test, or is performed during the peritoneal equilibrium test.
- 20 3. The method for testing peritoneal function according to claim 1 or 2, wherein the monitored solutes for assessing peritoneal function are total protein, albumin, glucose, creatinine, urea, sodium, and chlorine.
- 25 4. The method for testing peritoneal function according to claim 3, wherein the albumin concentration of the drain fluid is extrapolated based on the total protein concentration of the drain fluid.
- 30 5. The method for testing peritoneal function according to claim 1, where the step of repeating fluid infusion and fluid drain is performed at least three times for each dialysis fluid of respective osmotic pressure.
- 35 6. The method for testing peritoneal function according to claim 5, wherein when the step of repeating fluid infusion and fluid drain is performed a plurality of times using dialysis fluid having the same osmotic pressure, then a dwell time from when the dialysis fluid is infused until when the dialysis fluid is drained is different each time.

7. The method for testing peritoneal function according to claim 1,  
wherein the peritoneal dialysis fluid whose osmotic pressure is relatively  
higher is infused last in the step of repeatedly performing fluid infusion and fluid drain  
5 of a predetermined amount of peritoneal dialysis fluid in alternation for peritoneal  
dialysis fluids having different osmotic pressures.

8. The method for testing peritoneal function according to claim 1,  
wherein the peritoneal dialysis fluid whose osmotic pressure is relatively  
10 higher is infused first in the step of repeatedly performing fluid infusion and fluid drain  
of a predetermined amount of peritoneal dialysis fluid in alternation for peritoneal  
dialysis fluids having different osmotic pressures.